PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP19375-BJN	FOR FURTHER ACTION as	see Form PCT/ISA/220 well as, where applicable, item 5 below.					
International application No. PCT/AU2004/000295	International filing date (day/month/year) 10 March 2004	(Earliest) Priority Date (day/month/year) 27 March 2003					
Applicant BIONOMICS LIMITED et al							
Article 18. A copy is being transmitted to	the International Bureau.	y and is transmitted to the applicant according to					
This international search report consists of It is also accompanied by a companied by a compani	a total of 4 sheets. opy of each prior art document cited in this report	rt.					
1. Basis of the report							
a. With regard to the language, the in it was filed, unless otherwise indica	ternational search was carried out on the basis o ated under this item.	f the international application in the language in which					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
	unsearchable (See Box No. II).	•					
3. Unity of invention is lacking	g (See Box No. III).						
4. With regard to the title,							
X the text is approved as submi	tted by the applicant.						
the text has been established	by this Authority to read as follows:						
	·						
5. With regard to the abstract,							
X the text is approved as submitted by the applicant.							
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. With regard to the drawings,							
a. the figure of the drawings to be published with the abstract is Figure No.							
as suggested by the applicant.							
as selected by this Authority, because the applicant failed to suggest a figure.							
	Authority, because this figure better characterize	s the invention.					
b. X none of the figures is to be p	ublished with the abstract:						

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000295

Α.	CLASSIFICATION OF SUBJECT MATTER						
Int. Cl. 7:	C12Q 1/68, C12N 15/01, A61K 39/395, C07K 14/47						
According to International Patent Classification (IPC) or to both national classification and IPC							
B . 1	FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) SEE ELECTRONIC DATABASES							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SEE ELECTRONIC DATABASES							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WIPS, Medline, CA (see continuation of box B)							
.C.							
Category*	Citation of document, with indication, where app	Relevant to claim No.					
X	Fujiwara, T. et al. 2003. Mutations of sodium channel α subunit type 1 (SCN1A) in intractable childhood epilepsies with frequent generalised tonic-clonic seizures. Brain, a Journal of Neurology, Vol: 126, pages 531-546.						
х	Lerche, H. et al. 2001. Ion channels and epilepsy. American Journal of Medical Genetics, Vol: 106, pages 146-159. 1-2, 4, 10-12 17, 21, 25 ar 27-28.						
x	Cannon, Stephen.C. 2002. Sodium channel gating: no margin for error. Neuron, Vol: 1-2, 4 and 10-11						
		.* •*					
X F	urther documents are listed in the continuation	n of Box C	See patent family ann	ex			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the invention "E" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" document of particular relevance; the claimed invention cannot be considered novel							
"L" documer or which	or which is cited to establish the publication date of involve an inventive step when the document is combined with one or more other						
"O" documer	another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family						
"P" document published prior to the international filing date but later than the priority date claimed							
Date of the actu 4 May 2004	Date of the actual completion of the international search 4 May 2004 Date of mailing of the international search report 1 4 MAY 2004						
	ing address of the ISA/AU	Authorized officer					
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA							
E-mail address:	: pct@ipaustralia.gov.au (02) 6285 3929	Terry Moore	1				
· acontinie 140.	(V4) V40J J747	Telephone No: (0	2) 0283 2032	_			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000295

ategory*	Citation of document, with indication, where appropriate, of the relevant passages			
X 🗸	Sugawara, T. et al. 2002. Frequent mutations of SCN1A in severe myclonic epilepsey in infancy. Neurology, Vol: 58, pages 1122-1124.			
x	Madia, F. et al. 2003. No evidence of GABRG2 mutations in severe myclonic epilepsy of infancy. Epilepsy Research, Vol 53, pages 196-200.			
x	Malacame, M. et al. 2002. Lack of SCN1A mutation in familial febrile seizures. Epilepsia, Vol: 43(5), pages 559-562.			
×	Ohmori, I. et al. 2002. Significant correlation of the ScN1A mutations and severe myclonic epilepsy in infancy. Biochemical and Biophysical Research Communications, Vol. 295, pages 17-23.			
A	Spampanato, J. et al. 2003. Generalised epilepsy with febrile seizures plus type 2 mutation W1204R alters voltage-dependent gating of Na _v 1.1 sodium channels. Neuroscience, Vol: 116, pages 37-48.	1-2 and 4		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000295

Supplemental Box (To be used when the space in any of Boxes I to VIII is not sufficient)								
Continuation of Box No: B (Search Terms)								
Epilepsy, Sodium channel, SC	Epilepsy, Sodium channel, SCN1A, Severe myclonic epilepsy of infancy, SMEI, mutation, allele,							
Polymorphism, antibody, anti-sense, ribozyme, RNAi, agonist, antagonist, modulate, inhibit.								
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